

HIGH BURST (MEAN POINT OF IMPACT) REGISTRATION For use of this form, see FM 6-40; the proponent agency is US Army Training and Doctrine Command. COMPUTATION OF HB (MPI) LOCATION															
Message to Observers						Dis 01 → 02		Az 01 → 02		3200					
								+ -							
								Az 02 → 01							
Data Fired		Chg		Df		FS		OE							
Observer Readings						Interior Angles									
Rd	01				02		01 on Left				01 on Right				
No	A z		VA		Az										
1							Az 01 → HB (MPI)				Az 02 → HB (MPI)				
2							+6400 if necessary				+6400 if necessary				
3							Total				Total				
4							-Az 02 → HB (MPI)				-Az 01 → HB (MPI)				
5							APEX \angle				APEX \angle				
6							Az 02 → HB (MPI)				A z 02 → 01				
7							+6400 if necessary				+6400 if necessary				
8							Total				Total				
9							-Az 02 → 01				-Az 02 → HB (MPI)				
10							\angle at 02				\angle at 02				
						Total		Bearing = 6400 - Az dE - dN +		Bearing = Az dE + dN +		Az 01 → HB (MPI) → Bearing			
						A verage									
Distance 01 HB (MPI)															
Log base 01 → 02															
+ log sin \angle at 02															
Sum															
- Log sin Apex Angle															
diff = Log dist 01 hb (MPI)															
Dist 01 → HB (MPI)															
						dE - dN -		Bearing = Az - 3200		dE + dN - Bearing = 3200 - Az					
Log of dE, dN, and dH															
Log dist 01 → HB (MPI)								Log dist 01 → HB (MPI)							
Log sin Bearing								Log cos Bearing							
Sum = Log dE								Sum = Log dN							
Coordinates of 01				E				N				H			
				+ - dE				+ - dN				+ - dH			
Location of HB (MPI)				E				N				H			
COMPUTATION OF GFT SETTING															
Alt HB (MPI)				OE fired				Chart data to HB (MPI) location Deflection _____ m Range _____ M GFT " _____ " Charge _____ Lot _____ Range _____ Elevation _____ Time _____						Df corr	
- Alt Btry				- Site VI/HB (MPI) Rg											
VI		+ -		Adj Elev											

<h2 style="margin: 0;">HIGH BURST (MEAN POINT OF IMPACT) REGISTRATION</h2> <p style="margin: 0; font-size: small;">(FM 6-40)</p>																			
COMPUTATION OF HB (MPI) LOCATION																			
Message to Observers										Dis 01 → 02		Az 01 → 02		3200					
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Data Fired			Chg			Df			FS			OE							
Observer Readings					Interior Angles														
Rd	01				02		01 on Left					01 on Right							
No	Az		VA		Az														
1							Az 01 → HB (MPI)					Az 02 → HB (MPI)							
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4																			
5							Total					Total							
6																			
7							-Az 02 → HB (MPI)					-Az 01 → HB (MPI)							
8																			
9							APEX \angle					APEX \angle							
10																			
11							Az 02 → HB (MPI)					Az 02 → 01							
12																			
13							+6400 if necessary					+6400 if necessary							
14																			
15							Total					Total							
16																			
17							-Az 02 → 01					-Az 02 → HB (MPI)							
18																			
19							\angle at 02					\angle at 02							
20																			
Total					Bearing = 6400 - Az dE - dN +					Bearing = Az dE + dN +					Az 01 → HB (MPI) → Bearing				
Distance 01 HB (MPI)					<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">IV III</div> <div style="text-align: center;">I II</div> </div>					Bearing									
Log base 01 → 02																			
+ log sin \angle at 02																			
Sum																			
- Log sin Apex Angle																			
diff = Log dist 01 hb (MPI)																			
Dist 01 → HB (MPI)					dE - dN -					dE + dN -									
Log of dE, dN, and dH																			
Log dist 01 → HB (MPI)					Log dist 01 → HB (MPI)					Log dist 01 → HB (MPI)									
Log sin Bearing					Log cos Bearing					Log Tan Vert \angle									
Sum = Log dE					Sum = Log dN					Sum = Log dH									
Coordinates of 01			E						N				H						
			+ - dE						+ - dN				+ - dH						
Location of HB (MPI)			E						N				H						
COMPUTATION OF GFT SETTING																			
Alt HB (MPI)			OE fired				Chart data to HB (MPI) location							Df corr					
- Alt Btry			- Site VI/HB (MPI) Rg				Deflection _____ m Range _____ M												
VI			+ -		Adj Elev		GFT " _____ " Charge _____ Lot _____												
							Range _____ Elevation _____ Time _____												